Rev.1

DVRTT CMS User Manual

CMS(Central Monitoring System)

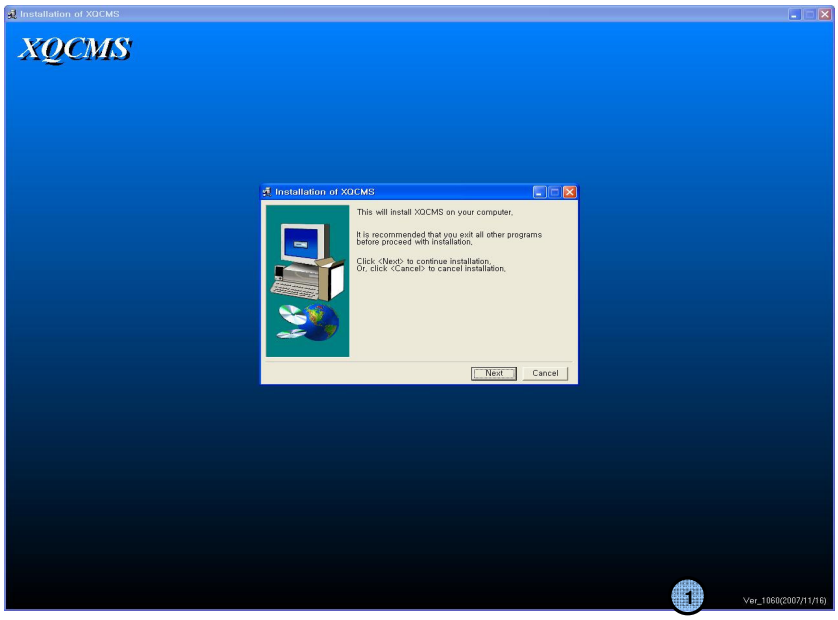
▣ System Requirements

OS	Win 2000 / Win XP / Win Vista
CPU	INTEL P-4 2.4Ghz or over(recommends Dual-core,over)
Main Memory	512MByte or over (recommends 1Gbyte,over)
Video Memory	64M over supports RGB (recommends 128Mbyte over)
Resolution	1024*768 over
Lan Card	10/100 Supporting card
Protocol	TCP/IP

▣ Function and Specification

DVR	TT Series
Max connectable no of DVR	Theoretically, it connects max 64 cameras. But realistically, it needs to be connected considering below max display frame (5~10 units)
Max Display frame	420fps. A bit variable according to a kind of DVR and network status
Various multi-window	1,4,9,16,36,64,Full Screen
Remote monitoring	Connectable the other TT series at the same time
Remote Set-up	Available to set up main menu of DVR
Remote backup	Available to backup of recorded data
Local playback	Available to playback of backup file
E-MAP	Linked with E-MAP, available to manage DVR
Motion Pop-up	Remote monitoring & EMAP window support motion pop-up
Useful additional function	Print, Image saving, AVI saving etc, PTZ Dual Monitor is supported

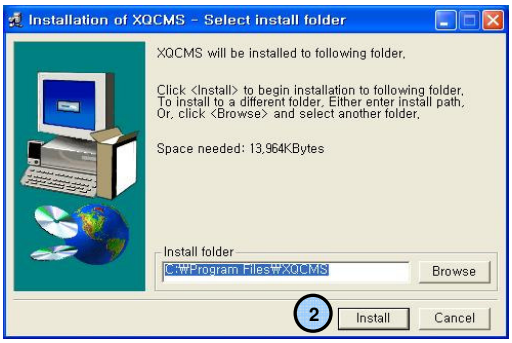
Program Installation



Displaying program version, produced date

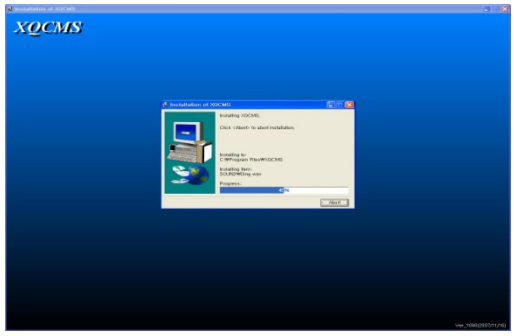
- **Lock version**
- **Trail version**
- **Free version**

➢ **Step 1**


Installation of XQCMS - Select install folder
XQCMS will be installed to following folder.
Click <Install> to begin installation to following folder.
To install to a different folder, Either enter install path,
Or, click <Browse> and select another folder.
Space needed: 13,964KBytes
Install folder
C:₩Program Files₩XQCMS
Browse
2
Install
Cancel

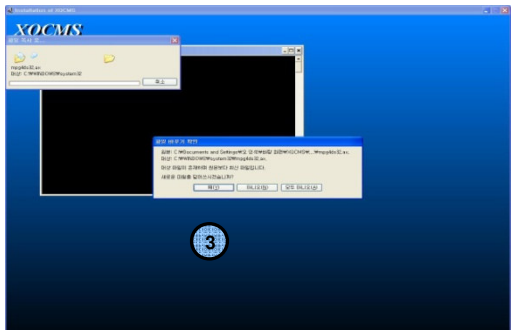
Install button 'click'

➢ **Step 2**



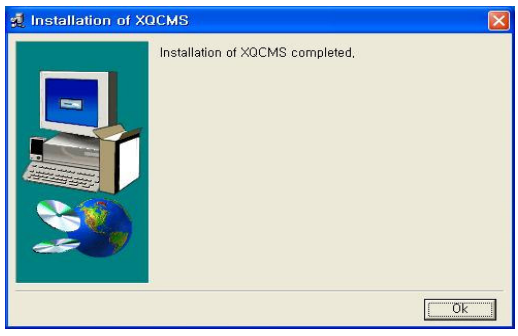
<displaying Installation progress status>

➢ **Step 3**



<Codec installation>
Certainly 'click' YES

➢ **Step 4**



<installation ends>

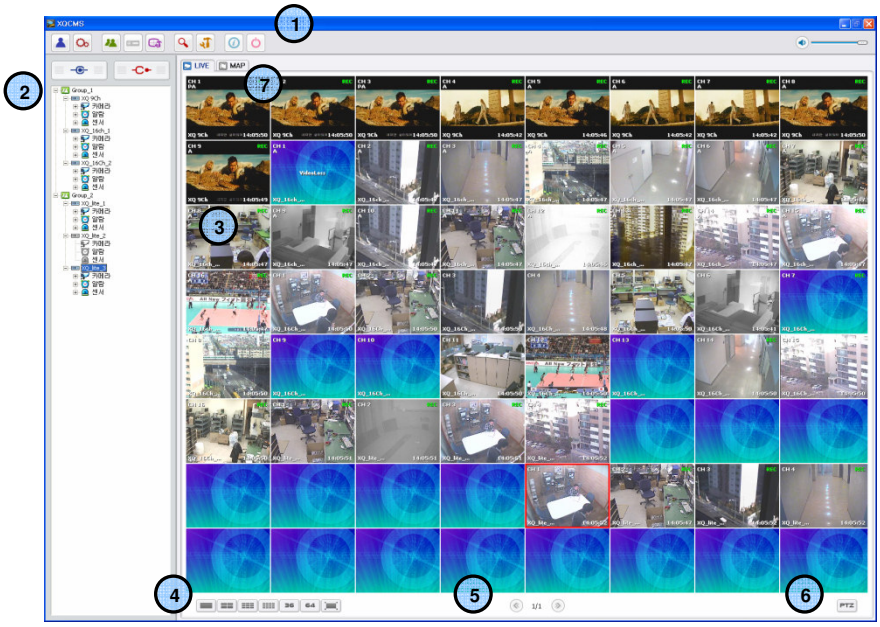
Program execution

- **Login**

When program is first executed, puts in ID,Password

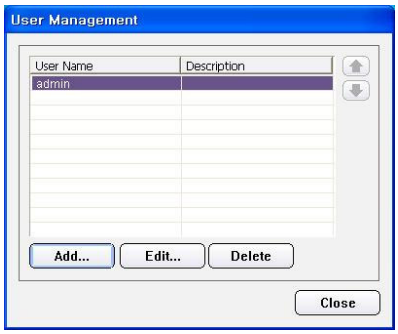
Default – ID: admin , Password: 1.

CMS Main screen



1 Function button

1 User Management



Add, edit, delete of CMS account.

≫**Add :** add CMS user

≫**Edit :** revise user ID, PASSWORD

≫**Delete:** delete user

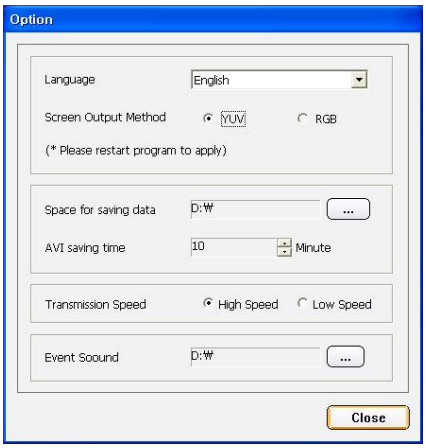
<Use management add/modify >

➢ User name :
Type the user name authorized in DVR

➢Password:
Type the password authorized in DVR

➢ User explain:
Shows the user information

② Option management



<Option management>

➢**Language : To choose program' language**.

➢**Video output :** ATI
YUV mode : According to your PC graphic card ability, the support can be decided. This mode shows faster, clear ability of image transmission than RGB mode.

➢**RGB mode** : nVidia
It is widely compatible with most graphic cards, and select this when TUV mode is not supported.

※ Above setting value will apply after restarting of the program.

<Recommended Graphic Card>
ATI series : Radeon7000 series (More than 32M, more than 64M recommendable), RADEON series…
NVIDIA series : More than M64 series (Min over 32M, more than 64M recommendable), GEFORCE series
Etc :VGA card to support YUV mode… , Recommended 2 times memory when dual monitor is used.

➢**Space for saving data**

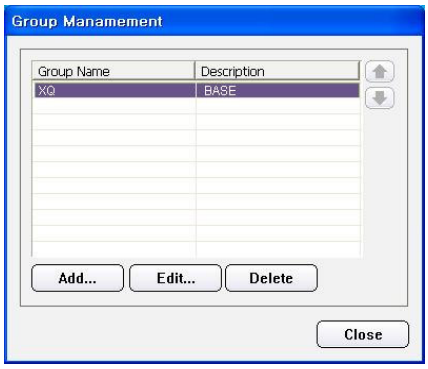
Sets ups basic path of AVI file to save

➢**AVI Saving time**
Sets up saving time of AVI file from CMS.

➢**Transmission Speed**
High Speed : System sends off images at high speed possible.
Low Speed : System sends off image at normal speed in consideration of stability.

➢**Event Sound**
Set ups sound file (*.wav), when the event occurs.

3 Group management



Add, modify and delete a group in DVR

- **Add…** : Add a group information
- **Modify...**: Modify a group information
- **Delete** : Delete existing group information.

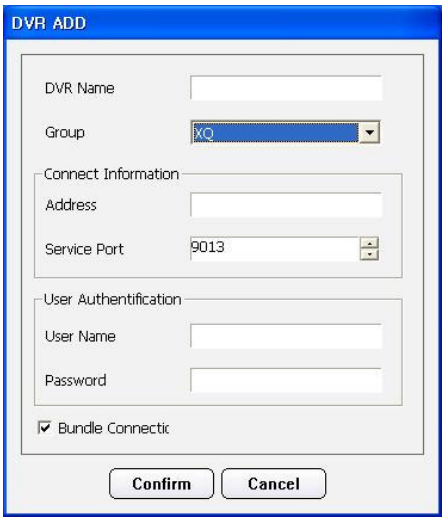
- Group name :
Specify a group name in DVR
- Group information:
Specify a group information

※ To register DVR , you need to register a group first.

4 DVR Management

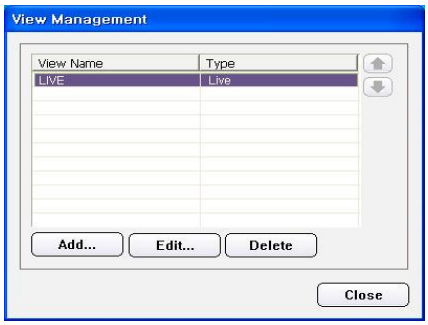
Add /modify/Delete DVR connection in the CMS

- **Add...** : Enter IP address and user authentication to connect DVR
- **Edit...** : Modify IP address and user authentication of the existing list
- **Delete** : Delete existing use.



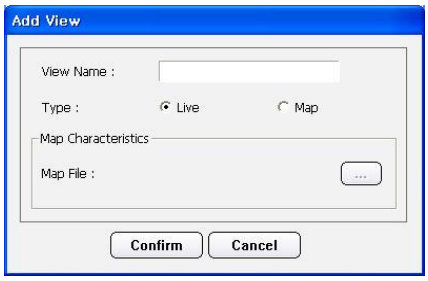
- DVR name:
Specify a name that you can easily identify.
- Group :
Select the DVR group
- Address :
IP address to connect
(type IP or DDNS Host Name)
- Service port :
Set service port same to DVR's one
- User name:
Type user name of DVR authorized
- Password : Type password to DVR authorized .
- Connect all : connect all when it connects

5 VIEW Management



Adds, edits, deletes Live/ E-map showed in CMS

- **Add...** : add View information
- **Edit...** : edit View information
- **Delete** : delete View information



- View name :
put in any name for user to know easy
- kinds :
select LIVE or MAP
- Map file :
In case the View is map, select to be used image

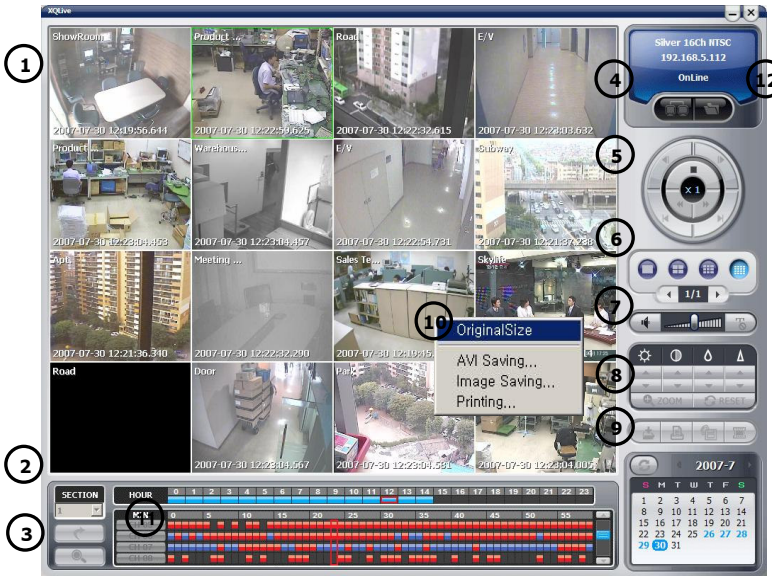
- View name :

put in any name for user to know easy

- Map file :

In case the View is map, select to be used image

6 Search



1 Video playback screen

Camera name

Green border line : displays selected camera.

Recorded date/time

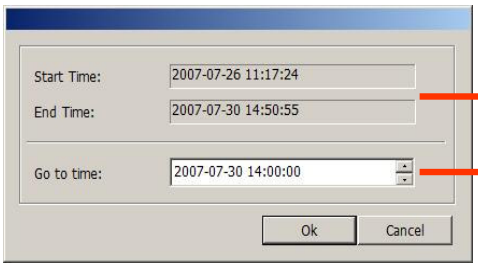
2 SECTION

Select “SECTION”

③ Move and Event search

Move button : move to selected time.

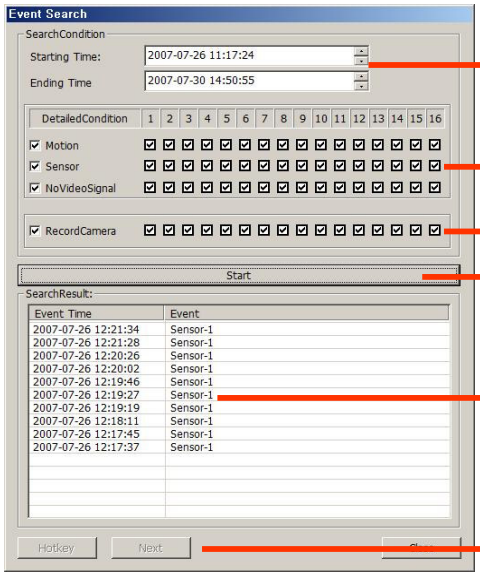
Event search button : popup event search window



Shows start and end time of recorded data

Moves to the time to search and press OK button

<Move Window>



Select time to event search

Select events in detail

Select camera to search

Start event search

※ Click "NEXT" button to see next event data

Shows current searched event lists

Hotkey : Play searched event

Next : Search next event.

※ to see next event search, click "NEXT" button

<Event search window>

Pls make sure to select LOG of the system. If not event lists are not searched

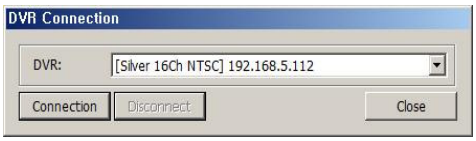
④ Connection information and button

Shows DVR name, IP address and connection status

Backup play button

Connect / Disconnect button:

Button to connect to other DVR in the saved list

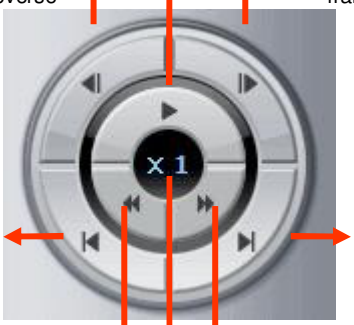


<Connection list window>

When many DVRs are registered in DVR list, Each DVR can be remotely searched without Closing remote program

※ Linked lists cant not be edited while search.

⑤ Playback button



Playback / Pause

Previous frame : Play previous frames reverse direction

Next frame : Play next frames forward direction

Starting : Move to starting of record data

End : Move to end of record data

Fast rewind : fast reverse play every 1 minute

Fast forward : Fast play every 1 minute

Speed control bar

⑥ Screen division button

Screen division button

⑦ AUDIO play

It is the function that control audio at REMOTE Live

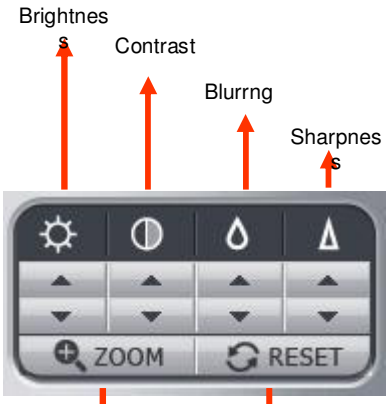
※Audio is only able to play on one full screen

Sound volume control gauge

Mute button :

Stops audio transmission

⑧ Image control button



Brightness adjustment button :

Adjusts brightness of playing images

Contrast adjustment button :

Adjusts contrast of playing images

Blurring adjustment button :

Adjusts blurring of playing images

Sharpness adjustment button :

Adjusts sharpness of playing images

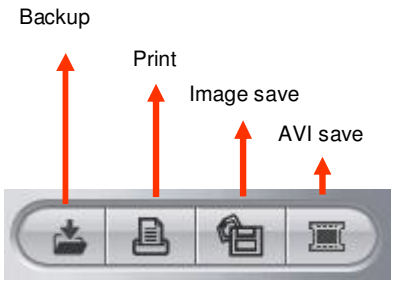
Zoom button :

Zoom the selected part

Reset button :

Initializes adjusted image to original image

⑨ Saving button



Backup :

Backups searched image as compressed image file

print :

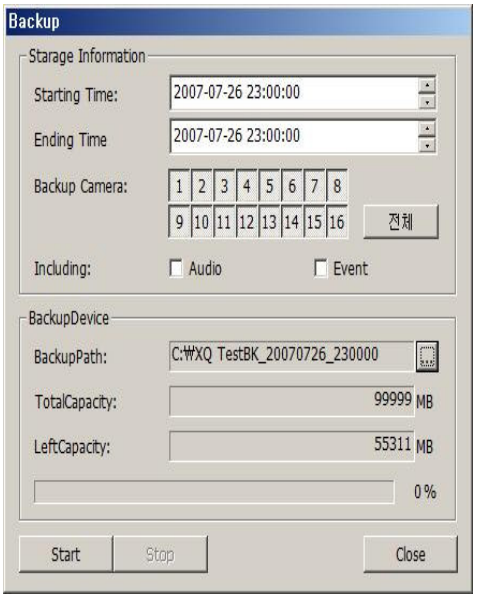
Prints searched image

Image save :

Saves searched image as image file (saves JPEG or BMP)

AVI save :

Saves searched images as AVI file



<Backup window>

Storage information :

Select start and end time to backup image

Backup camera :

Select camera to backup

Including :

Selects audio and event to include

Backup path :

Selects path to backup

Total capacity :

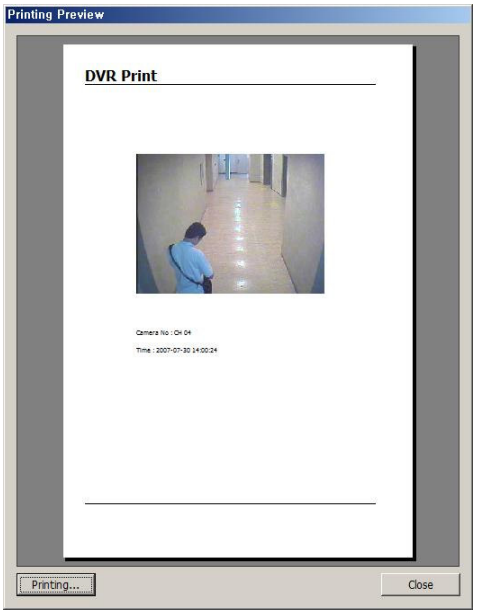
shows total capacity of the device

Used capacity :

Shows used capacity

Left capacity :

Shows remaining capacity



<Print preview window>

Preview :

Preview of the images to print,

Which is printed with various information

written on the bottom of the image

<Image save window>

Image format

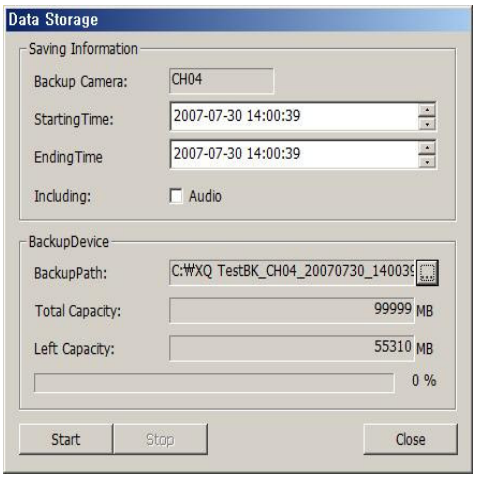
JPG format :

Definition has a little loss due to loss compression method, but archiving size is small

BMP format :

Archiving size is a bit big due to no compression, but it can be saved as higher definition that JPG

Saving path : selects path to backup, "…"path can be changed to button



<AVI save window>

Storage information

Selects camera no and start/end time to save

Including :

Selects audio to include

Backup path :

selects path to backup, "…"path can be changed to button

Total Capacity :

shows total capacity

Left capacity :

<What is AVI file?>
It is Audio/Video format of Microsoft Windows. If it is double clicked, browser like media player is executed automatically and video is shown, as it is compressed too much file size is not small

<How to find recorded date/time when AVI file is palyed>
Check "caption option" of media player to display time/date of playing AVI file.

⑩ Mouse click action

When right button is clicked, the following menu appears and the following functions can be used

Original Size : shows original size

AVI Saving Begins.. :

Start to save AVI files

※Audio can be saved on one full screen

Image Saving.. : Save image of the selected channel image (Saves JPEG or BMP)

Printing.. : Print current image of the channel

⑪ Time Table

Available to play back the data on selecting the time, minutes of the date, month and year.

Month/Year selection button :

Button used to got to previous month or next month.

Recording Date (Blue) :

The recording date, which is indicated in blue.

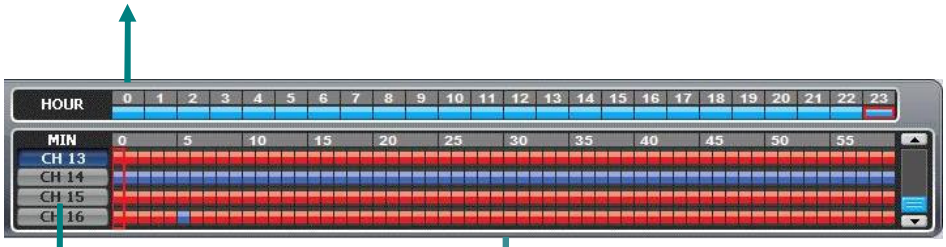
Current Date (Blue block) :

The current date, which is indicated in blue block.

No recording date (black) :

The no recording date, which is indicated in black.

Time Table : It indicates as 24 hour units, which consists of one hour unit.



Camera Selecting Button:

If pushing the button on pause,

the selected channel will be going on.

Minute Select Pointer :

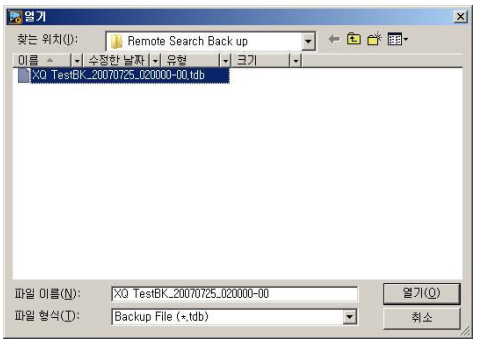
To select the minute, select the hour on the right & left side and select the channel on the up & down.

While playing back, select the search time by the mouse pointer on the pause.

⑫ Backup Playback

Backup playback button :

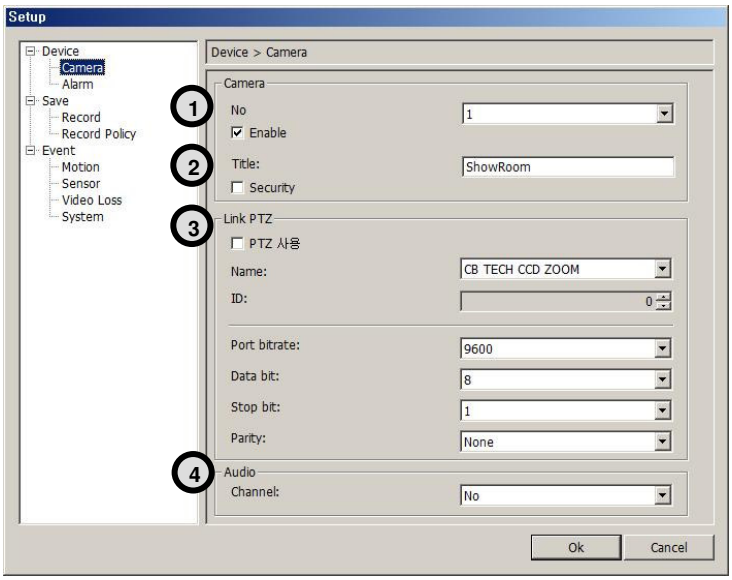
On clicking the left button, available to take the backup playback.



On pushing the backup playback button, the explorer window like left side appears and it is available to play back on selecting the requested file and opening it.

Only available to take the playback of backup data as the image file type.
The AVI type is just possible on the Windows Media Player.

Remote Set Up <Camera>



① No : Item to select camera No
To set up all the camera equally, Choose “select all”

☑ Enable : Selection item to use camera, Removing the check stops using that channel.

② Title : Item to revise/type the camera name.

☑ Security : When checked, It displays ‘Hidden’ on monitor. (though it keeps recording)

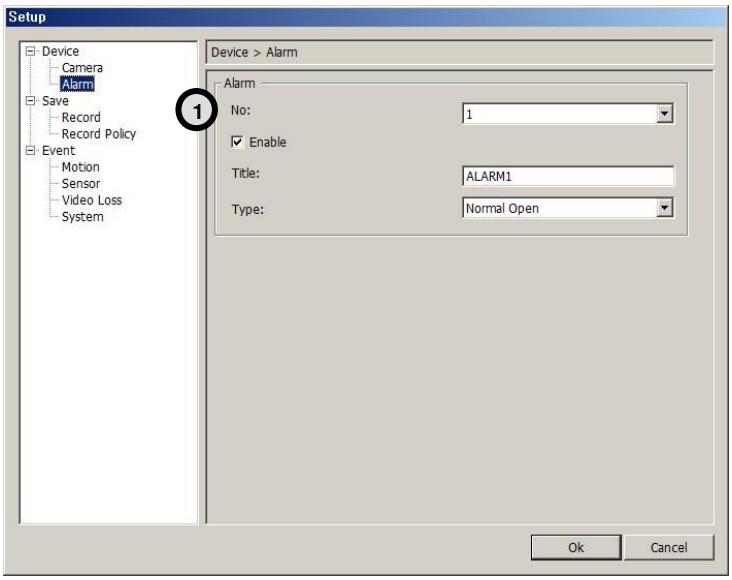
③ Link PTZ : Sets up PTZ camera.

☑ PTZ address: Item to assign PAN TILT address per camera.
Name :Item to check PTZ Camera’s model name.
ID : Item to select PTZ address per camera.

Port bit rate : Item to select the PTZ’s port bit rate.
Data bit :Item to select data bit.
Stop bit : Item to select Stop bit.
Parity : Item to select Parity.

④ Audio : Item to select which audio channel to be used among total 4 audio inputs.

Remote Setup <Alarm>

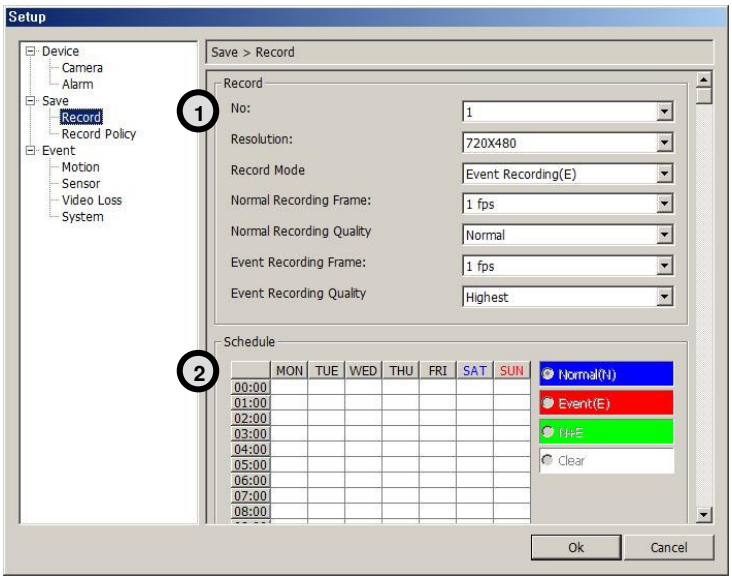


1 No : Item to select Alarm No.
To set up all the camera equally, Choose “select all”

☑ Enable : Item to select to use Alarm, Removing the check stops using that channel.

Title : Item to type Alarm’s name.
Type : Item to select Alarm’s type.
- Normal Open : Type of alarm open in general situation.
- Normal Close : Type of alarm close in general situation.

Remote Set Up <Record>



1 No : Item to select Camera No.
To set up all the camera equally, Choose “select all”

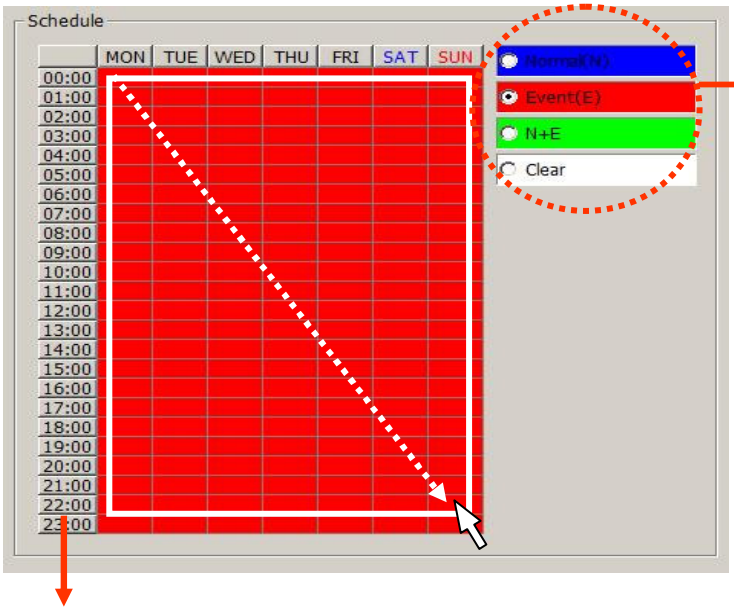
Resolution : Item to change the resolution.
- NTSC : 720X480, 720X240, 360X240
- PAL : 720X576, 720X288, 360X288

Normal Record Frame :Item to select normal record frame.
Normal Record Quality : Item to select normal record quality.

Event Record Frame :Item to select Event (Motion + Sensor + Video Loss) record speed.
Event Record Quality : Item to select Event (Motion + Sensor + Video Loss) record quality.

Schedule : Item to select record schedule.
- Normal : Always Record
- Event : Motion, Sensor, Video Loss
- N + E : Always + Event Record
- Clear : Delete the current record schedule.

② Remote Set Up <Record (Timetable)>



Schedule Indication by color

Normal(N) : (Blue)

Event(E) : (Red)

Normal(N) + Event(E) : (Green)

Clear (No Record) : (White)

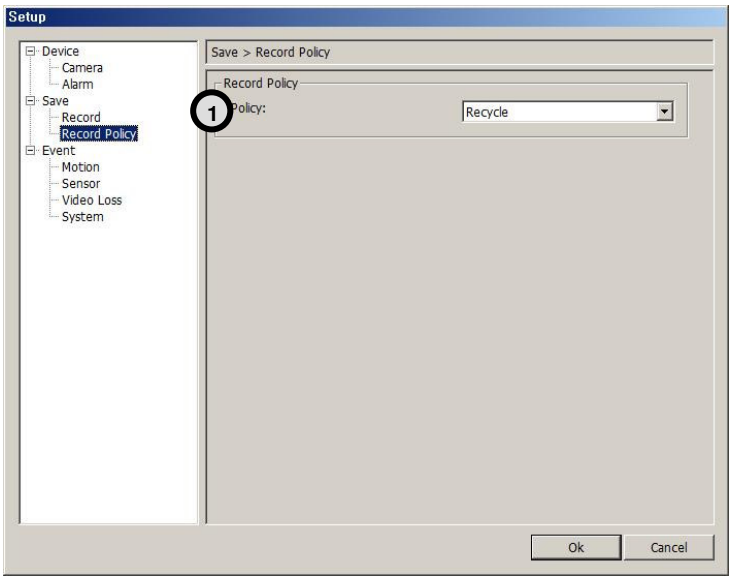
< Schedule of Record>
It is the list of selection in which schedule to use in operating the relevant camera channel.

First select the item you need among Normal time, Event and Normal time + Event.

Then drag mouse from the wanted position on time line.

※ To edit schedule record, you need to set record as schedule mode.

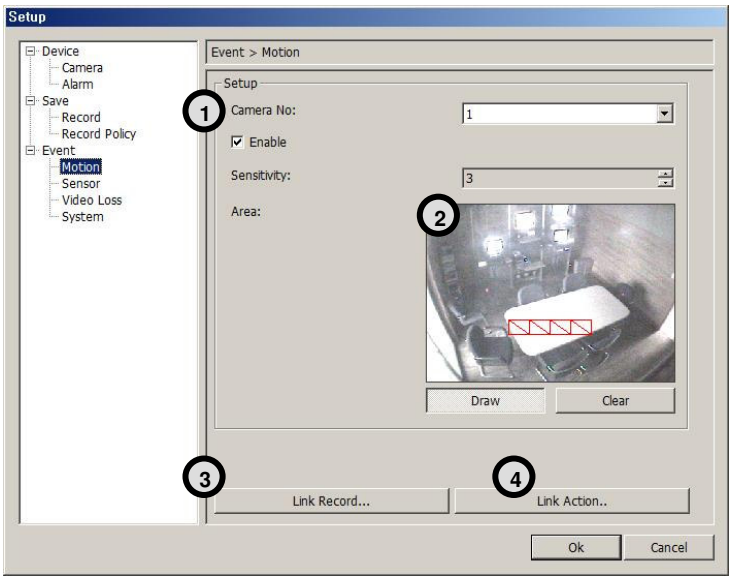
Remote Set Up <Record Policy>



1 Record Policy: Item to select record policy

Overwrite : When HDD capacity is almost consumed, It erases old data and record new.
Single Record : To stop recording on 100% of HDD capacity.

Remote Set Up <Motion>



1 **Camera No** : Item to select Camera No.
To set up all the camera equally, Choose "select all"

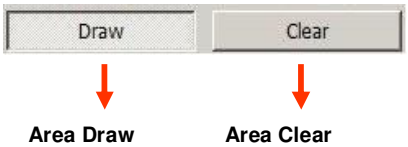
☑ Enable : Selects to use motion sensor, Removing the check stops using that channel.

Sensitivity : Adjusts the sensitivity in motion detection.
There are 5 steps and as the number increase, it gets more sensitive.

2 **Area** : Item to select motion area.

Area is selected when drag the mouse on the image.

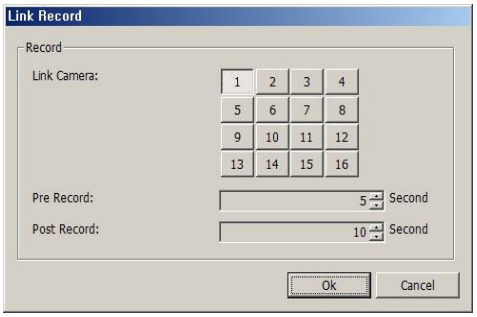
<Set Up Area Tool>



Area Draw button

Area Clear Button

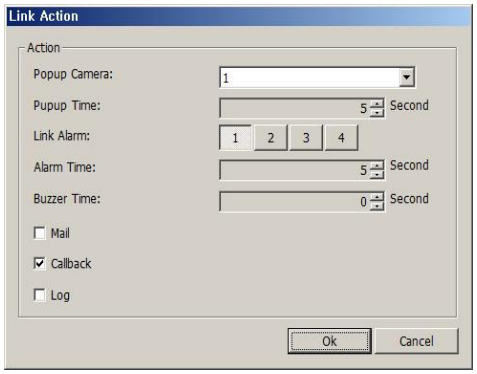
3 Remote Set Up <Motion (Link Record)>



Link Camera :
Selects which channel to record when motion is detected on the relevant channel.
※ Multiple selection possible

Pre Record : Sets pre-event recording time. (Max 5 second)
Post Record : Sets post-event recording time. (Max 60 second)

4 Remote Set Up <Motion (Link Action)>



Popup Camera :
Selects which channel to Popup when motion is detected on the relevant channel.
※ It works when the Popup setting is 'Yes' on DVR.

Popup Time :
Sets Popup time

Link Alarm :
Select Alarm to be linked when motion Is detected.
※ Multiple selection possible

Alarm Time : Sets Alarm output time. (Max 30 second)
Buzzer Time : Sets buzzer output time in DVR. (Max 30 second)

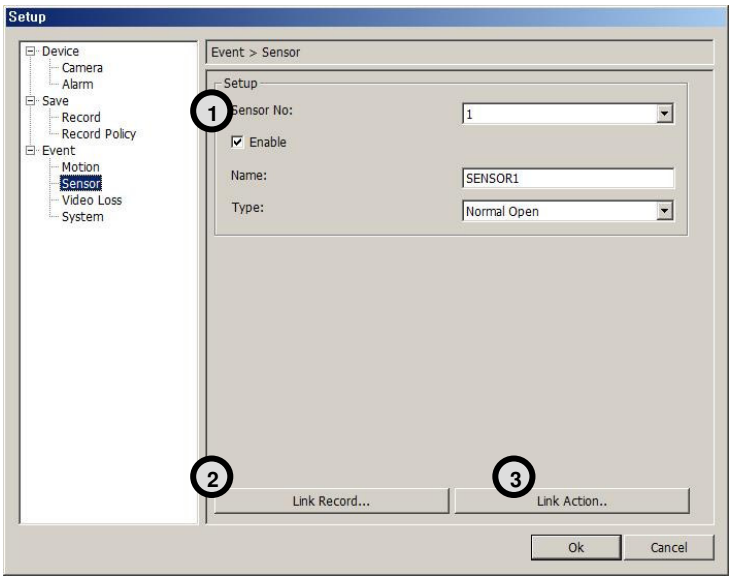
☑ Mail : When motion is detected, the log is sent to the selected e-mail.

☑ Call Back : When motion is detected, the log is sent to the selected IP address.

☑ Log : Item to save Log writing when motion detected.
(It is not recorded on the system Log but used for event search.)

Motion detection function is a mode to detect in accordance with the amount of color Changes of image. So, please be careful that DVR keeps recording as continuous motion when the image of camera is blinking caused by light problem or camera Auto Iris problem.

Remote Set Up <Sensor>

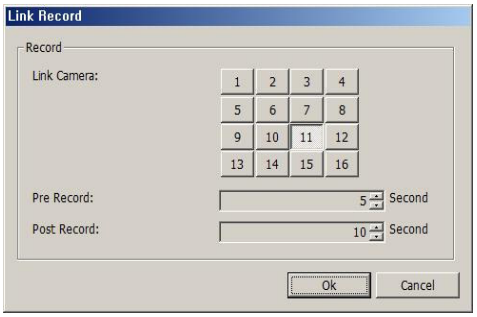


① **Sensor No** : Sets sensor No.
To set up all the camera equally, Choose “select all”

☑ Enable : Selects to use sensor, Removing the check stop using relevant sensor.

Title : Item to select sensor’s name.
Type : Item to select sensor type.
- Normal Open : Type of Alarm open in general situation.
- Normal Close : Type of Alarm close in general situation.

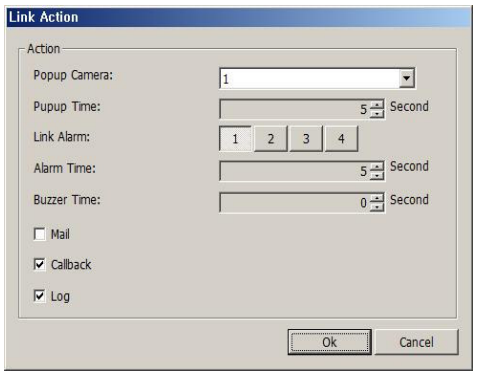
2 Remote Set Up <Sensor (Link Record)>



Link Camera :
Selects which channel to record when sensor is detected on the relevant channel.
※ Multiple selection possible

Pre Record : Sets up pre recording time. (Max 5 second)
Post Record : Sets up post recording time. (Max 60 second)

3 Remote Set Up <Sensor (Link Action)>



Popup Camera :
Selects which channel to Popup when sensor is detected on the relevant channel.
※ It works when the Popup setting is 'Yes' on DVR.

Popup Time :
Selects Popup time.

Link Alarm :
Selects Alarm to be linked when sensor is detected.
※ Multiple selection possible

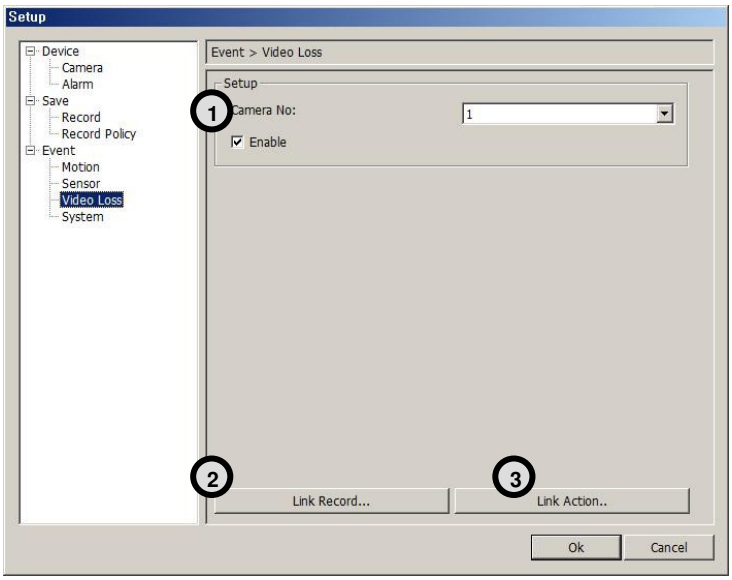
Alarm Time : Selects Alarm output time. (Max 30 second)
Buzzer Time : Selects buzzer output time. (Max 30 second)

☑ Mail : When sensor is detected, the log is sent to the selected e-mail.

☑ Call Back : When sensor is detected, the log is sent to the selected IP address

☑ Log : Item to save Log writing when sensor detected
(It is not recorded on the system Log but used for event search.)

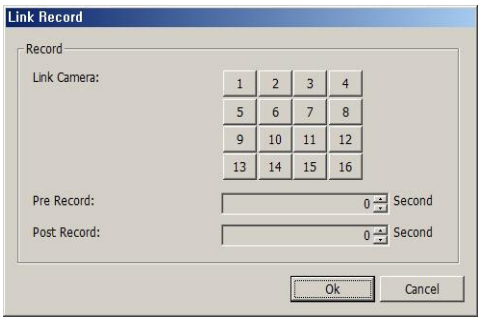
Remote Set Up <Video Loss>



1 **Camera No** : Item to select camera No.
To set up all the camera equally, Choose “select all”

☑ Enable : Selects to use Video Loss.

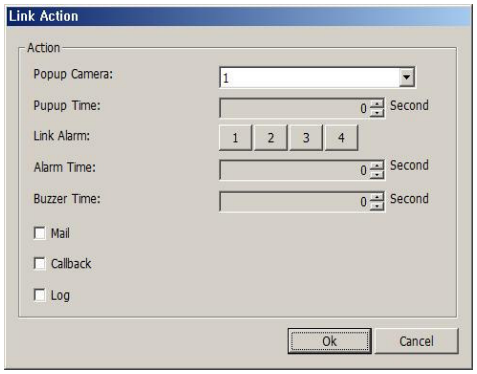
② Remote Set Up <Video Loss(Link Record)>



Link Camera :
Selects which channel to record when video loss is detected on the relevant channel.
※ Multiple selection possible

Pre Record : Sets up pre recording time. (Max 5 second)
Post Record : Sets up post recording time. (Max 60 second)

③ Remote Set Up <Video Loss (Link Action)>



Popup Camera :
Selects which channel to Popup when video loss is detected on the relevant channel.
※ It works when the Popup setting is 'Yes' on DVR.

Popup Time :
Selects Popup time.

Link Alarm :
Selects Alarm to be linked when video loss.
※ Multiple selection possible

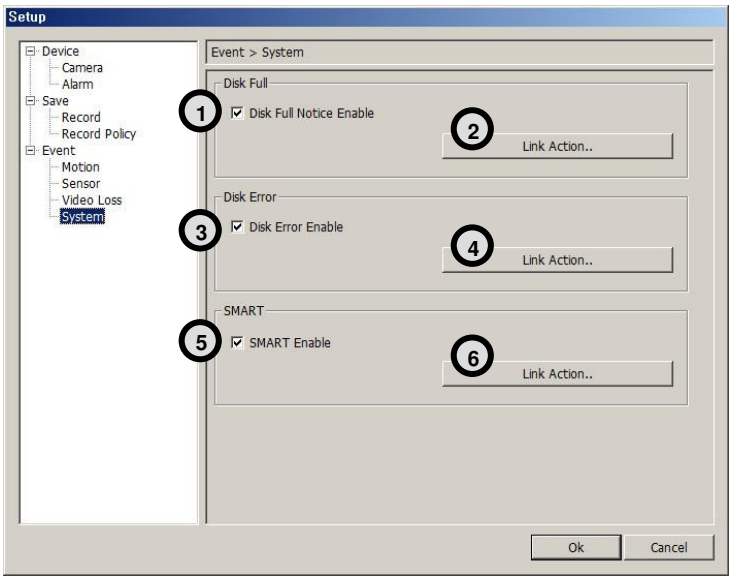
Alarm Time : Selects Alarm output time (Max 30 second)
Buzzer Time :Selects buzzer output time (Max 60 second)

☑ Mail : When video loss occurred, the log is sent to the selected e-mail

☑ Call Back : When video loss occurred, the log is sent to the selected IP address.

☑ Log : Item to save Log writing when video loss occurred.
(It is not recorded on the system Log but used for event search.)

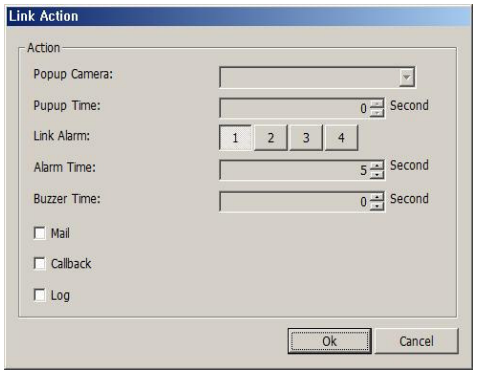
Remote Set Up <System>



1 **DISK FULL** : List for all installed HDD disks.

☑ Disk Full Notice Enable : Activate Disk Full Notice when installed disks are full.

2 **Remote Set Up <Disk Full (Link Action)>**



Popup Camera :
Not available as of now

Popup Time :
Not available as of now

Link Alarm :
Selects which Alarm to be linked when all installed HDD disks are full.
※ Multiple selection possible

Alarm Time : Selects Alarm output time. (Max 30 second)
Buzzer Time : Selects buzzer output time (Max 30 second)

☑ Mail : When all installed HDD disks are full, the log is sent to the selected e-mail

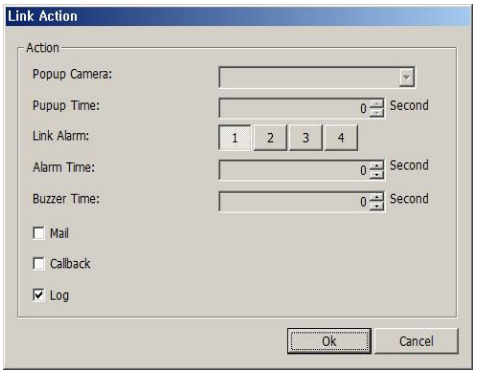
☑ Call Back : When HDDs are full, the log is sent to the selected IP address.

☑ Log : Selects to save Log writing when installed HDDs are full.
(It is not recorded on the system Log, but used for event search.)

3 **Disk Error** : Shows data error on all of the HDDs installed.

☑ Enable Disk Error : When there is a disk error, it is linked to action.

4 **Remote Set Up <Disk Error (Disk Action)>**



Popup Camera :
Not available at this moment

Popup Time :
Not available at this moment

Link Alarm :
Selects Alarm to be linked when HDD error.

※ Multiple selection possible

Alarm Time : Sets Alarm output time (Max 30 second)
Buzzer Time : Sets buzzer output time (Max 30 second)

☑ Mail : When HDD error occurs, the log is sent to the selected e-mail

☑ Call Back : When HDD error occurs, the log is sent to the selected IP address.

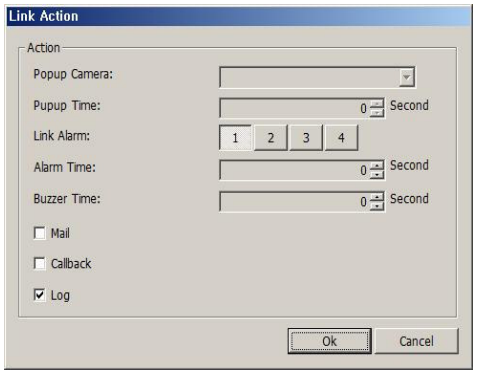
☑ Log : Selects to save Log writing when HDD error.
(It is not recorded on the system Log but used for event search.)

5 **SMART**

☑ Enable SMART : Select to use SMART feature.

SMART Function??
It checks the physical errors and observes the HDD disk continuously such as Temperature, I/O device errors and general conditions of the HDD disk.

6 Remote Set Up <SMART (Link Action)>



Popup Camera :
Not available at this moment

Popup Time :
Not available at this moment

Link Alarm :
Selects which alarm to be linked

※ Multiple selection possible

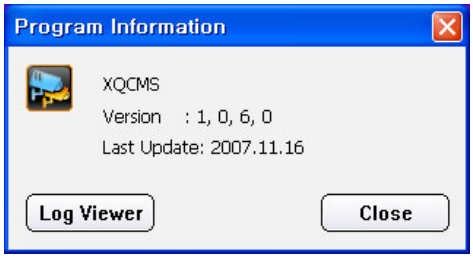
Alarm Time : Sets Alarm output time (Max 30 second)
Buzzer Time : Sets Buzzer output time (Max 30 second)

☑ Mail : When smart related problem occurs, the log is sent to the selected e-mail.

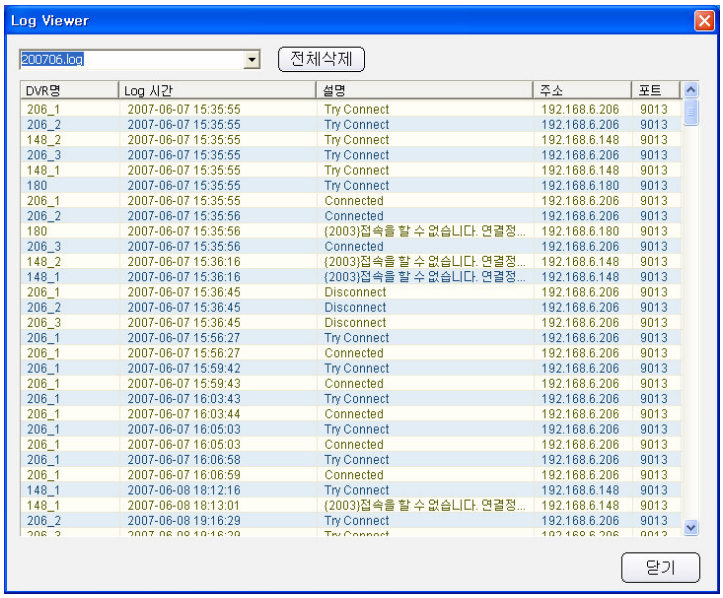
☑ Call Back : When problem occurs, the log is sent to the selected IP address.

☑ Log : Selects to save Log writing when smart related problem occurs
(It is not recorded on the system Log but used for event search.)

8 Program Information



Available to run the Log Viewer of the version and updated Information on CMS.



Log Viewer

By CMS, it makes the log of time, IP address, connecting port and status on connecting system.

9 Program Exit

It exits CMS.

2 DVR Tree

1 All Connection

It connects all DVRs nominated on the DVR information.

2 All Disconnection

It disconnects all DVRs connected on the DVR information.

3 Group

Indication of the Group of the DVR

4 DVR

Indication of disconnect DVR
Indication of connect DVR

5 Camera

Making the camera icons enabled, on connected with the DVR.

Indication of the camera status disconnected with the DVR
Indication of the camera status connected with the DVR
Indication of camera status on the motion detection
Indication of camera status on the video loss

6 Sensor

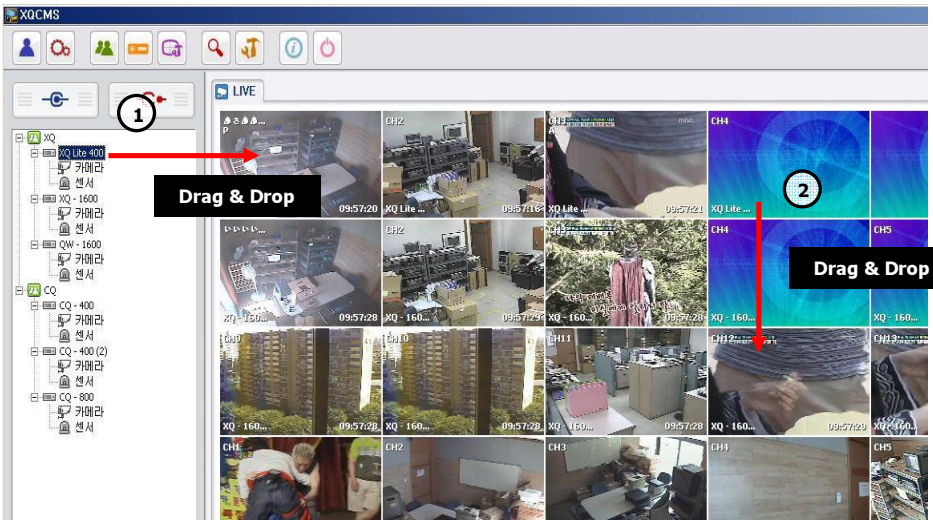
Making the sensor icons enabled, on connected with the DVR

Indication of the sensor status disconnected with the DVR

Indication of the sensor status connected with the DVR

Indication of sensor status on the sensor detection

DVR Tree

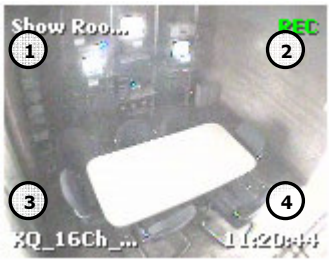


① After connection, the icon which has connected DVR would drag & drop to the Live display properly, it'll be show a display.

② Also the display in the Live display moves to another position, it'll be show a display that designated position.

3 Main Screen

1 Live Screen



1 Channel name

2 Recording Status

3 DVR name

4 Current time

Pop-up menu on clicking the right button of mouse,

•Stop : Temporary stops the current image of live view.

•Close: On the live view, it deletes the live channel.

•Image storage : Storage of the current live view as the image.

•Print: Printing out the current live view.

•AVI : Storage of the current live view as AVI file.

<AVI Storage>
On storing AVI, it stops the archive automatically by the setup time on the option, without any stop order.

4 Screen Splitting Button

It supports up to 64 screen splitting.

• Full Screen Button

It shows the view of live screen. .

5 Screen Movement Button

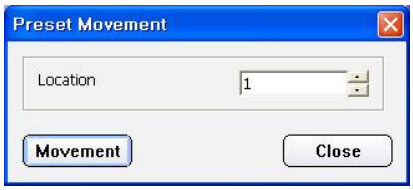
On the splitting live screen, it moves the next or the before.

6 PTZ

PTZ Disabled

PTZ Enabled

On clicking the PTZ button, the PTZ control panel appears. If the selected camera has the disabled setting of PTZ, it will be disabled status like No.1pic. If not, it will be enabled status like No.2pic.



1 Preset Movement

It makes the preset moved to the selected area.

2 Preset Setup

It sets up the preset to the selected area.

7 E-Map

1. Enabled camera connected with DVR
2. Live view of selected camera
3. Sensor Detection of DVR
4. Motion detection of the camera connected with DVR
5. Disabled camera connected with DVR
6. It makes other maps connected (Map Link)

Usage of Dual Monitor

On clicking the right button of mouse on the E-map tab, the pop-up appears.

➢Dual monitor movement

On the dual monitor function, the selected map is moved to the second monitor.

➢Event pop-up

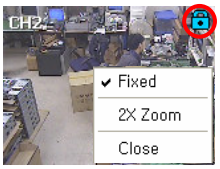
On detecting motion, Pop-up automatically.

➢Event sound

On detecting event, the sound (that is set up on the option) happens.

➢Initialize map

Initializing the map screen.



Fixed Screen

Released Screen

Pop-up screen Window pop-up menu

➢Fixed
On selecting it, the live pop-up window is fixed. Unless fixed, the screen will be closed automatically any times later. If fixed, the lock image will be shown on the right top of screen.

➢Zoom-in double times.
Zoom-in of live pop-up window by double-times.

➢Close
Closing the live pop-up window.